

CLAIMS

What is claimed is:

- 1 1. An electrical fuse box comprising:
2 a frame;
3 a plurality of electrical components pre-assembled within said frame;
4 a plurality of connector modules pre-assembled within said frame, wherein said
5 *connector modules are dimensioned and configured for electrically engaging electrical wires;*
6 an upper cover mounted on said frame; and
7 a lower cover mounted on said frame.

- 1 2. The electrical fuse box of claim 1, wherein said electrical components comprise
2 *relays, circuit breakers, J-case fuses, and blade fuses.*

- 1 3. The electrical fuse box of claim 1, wherein said connector modules comprise
2 connection contacts.

- 1 4. The electrical fuse box of claim 3, wherein said connection contacts extend through
2 said frame and make an electrical connection with said electrical components.

- 1 5. The electrical fuse box of claim 1, wherein said frame comprises at least one locking
2 receiver.

1 6. The electrical fuse box of claim 5, wherein each of said upper cover and lower cover
2 comprise a locking member dimensioned and configured to engage said locking receiver.

1 7. The electrical fuse box of claim 1, wherein each of said upper cover and lower cover
2 are pivotally mounted on said frame.

1 8. An electrical fuse relay box comprising:
2 a frame, wherein said frame comprises an upper and a lower compartment;
3 a plurality of electrical components pre-assembled within said upper compartment;
4 a plurality of connector modules pre-assembled within said lower compartment,
5 wherein said connector modules are dimensioned and configured for electrically engaging
6 electrical wires;
7 an upper cover mounted on said upper compartment; and
8 a lower cover mounted on said lower compartment.

1 9. The electrical fuse relay box of claim 8, wherein said electrical components comprise
2 relays, circuit breakers, J-case fuses, and blade fuses.

1 10. The electrical fuse relay box of claim 8, wherein said connector modules comprise
2 connection contacts.

1 11. The electrical fuse relay box of claim 10, wherein said connection contacts extend
2 through said frame and make an electrical connection with said electrical components.

1 12. The electrical fuse relay box of claim 8, wherein said frame comprises at least one
2 locking receiver.

1 13. The electrical fuse relay box of claim 12, wherein each of said upper cover and lower
2 cover comprise a locking member dimensioned and configured to engage said locking
3 receiver.

1 14. The electrical fuse box of claim 8, wherein each of said upper cover and lower cover
2 are pivotally mounted on said frame.

1 15. An electrical fuse relay box comprising:
2 a frame, wherein said frame comprises an upper compartment, a lower compartment,
3 and at least one locking receiver;
4 a plurality of electrical components pre-assembled within said upper compartment;
5 a plurality of connector modules pre-assembled within said lower compartment,
6 wherein said connector modules are dimensioned and configured for electrically engaging
7 electrical wires;
8 an upper cover pivotally mounted on said upper compartment; and
9 a lower cover pivotally mounted on said lower compartment,
10 wherein each of said upper cover and lower cover comprise a locking member
11 dimensioned and configured to engage said locking receiver.

1 16. The electrical fuse relay box of claim 15, wherein said electrical components
2 comprise relays, circuit breakers, J-case fuses, and blade fuses.

1 17. The electrical fuse relay box of claim 15, wherein said connector modules comprise
2 connection contacts.

1 18. The electrical fuse relay box of claim 17, wherein said connection contacts extend
2 through said frame and make an electrical connection with said electrical components.

1 19. A method of pre-assembling an electrical fuse relay box, said electrical fuse relay box
2 comprising a frame having an upper compartment and a lower compartment, said method
3 comprising:

4 mounting a plurality of electrical components within said upper compartment;

5 mounting a plurality of connector modules within said lower compartment, wherein

6 said connector modules being configured for electrically engaging electrical wires;

7 positioning an upper cover on said upper compartment; and

8 positioning a lower cover on said lower compartment.

1 20. The method of claim 19, wherein said electrical components comprise relays, circuit
2 breakers, J-case fuses, and blade fuses.

1 21. The method of claim 19, wherein said connector modules comprise connection
2 contacts.

1 22. The method of claim 21, further comprising extending said connection contacts
2 through said frame to make an electrical connection with said electrical components.

1 23. The method of claim 19, wherein said frame comprises at least one locking receiver.

1 24. The method of claim 23, wherein each of said upper cover and lower cover comprise
2 a locking member dimensioned and configured to engage said locking receiver.

1 25. The method of claim 19, wherein said upper cover is pivotally mounted on said upper
2 compartment and said lower cover is pivotally mounted on said lower compartment.